

GLOBAL SALES NETWORK

New **A** Series



CE CERTIFICATE



ISO14001

ISO14001: 2004



ISO9001

ISO9001: 2008

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HANGCHA GROUP CO., LTD.

Mini Range



1.5t
Pallet Truck

1.0/1.2t
Pallet Stacker

High Performance

- Strong power to satisfy most applications of material handling.
- Latest permanent magnetic system including motor and controller applied to provide excellent, efficient performance.
- Regenerative brake and slope anti-slide function are offered by this truck.

Reliability

- CBD: The adopted three-pivot design with side support system improves the safety and reliability.
- CDD: The adopted four-pivot design to provide reasonable driving wheel balance and good visibility and reliability.
- The applied lifting system with optimized design is more stable and reliable.
- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing.
- Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.

Comfort

- Simple and beautiful tiller designed to operate all functions easily even by one hand.
- Optimized design to offer a good visibility and easy entrance of the pallet.
- Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- Compact size to offer smart operations and pass of narrow aisle.

Safety

- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- The emergency button on the tiller head can effectively avoid the harm to the driver in emergent situations when driving in reverse.
- The standard equipped electronic lifting limitation and soft landing system protect working motor and loads from damaging.

Standard Specifications

- Horn
- PU drive wheel
- Internal charger
- Multi-function tiller
- Tandem load wheels
- 1150mm fork length
- Hydraulic power unit
- Maintenance free battery
- 560mm outside fork width
- Permanent magnetic motor
- Emergency disconnect switch
- CURTIS permanent magnetic controller
- 1.5m standard mast (Mini pallet stacker)

Options

- Load backrest
- 1220mm fork length
- 680mm outside fork width
- Cold store protection (-30°C)
- 2m mast (Mini pallet stacker)

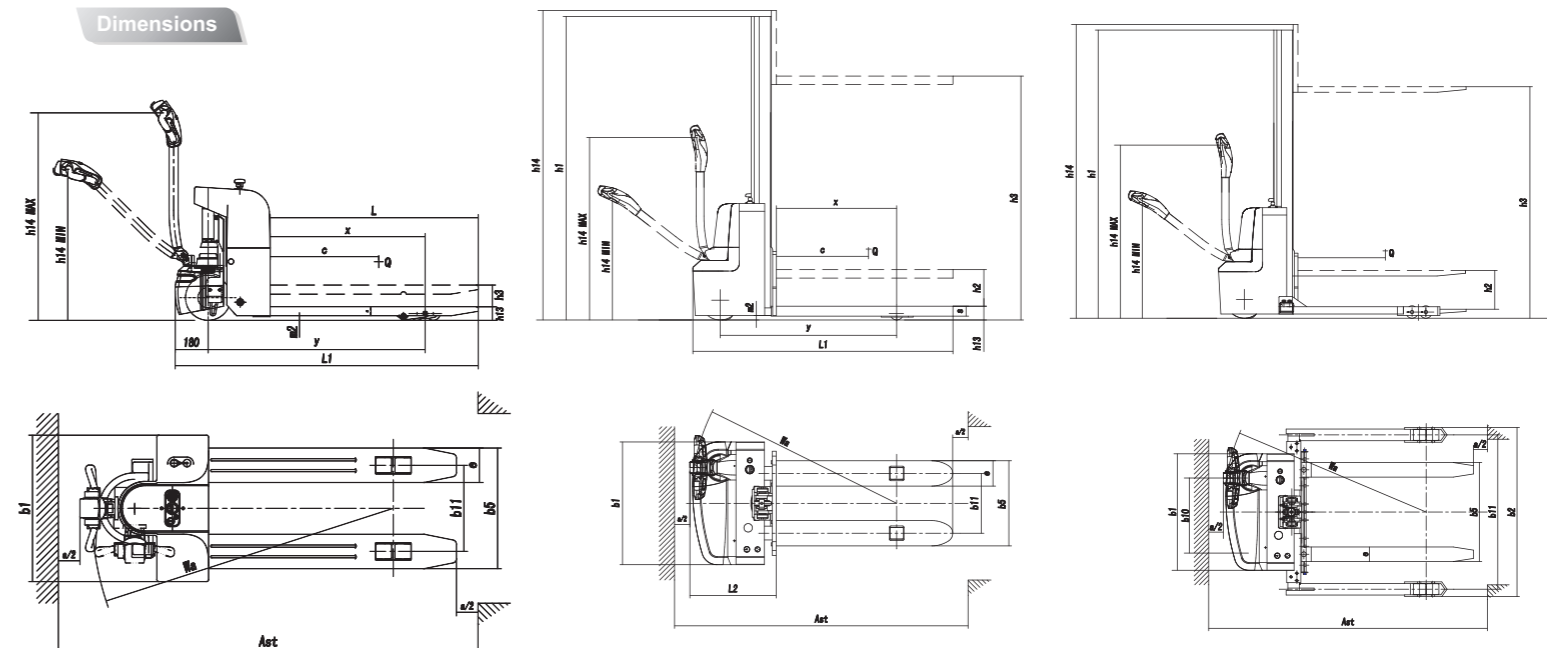
		HANGCHA GROUP CO.,LTD.					
Characteristics	1.1 Model		CBD15-AMC1	CDD10-AMC1	CDD12-AMC1	CDD10-AMC1-B	CDD12-AMC1-B
	1.2 Operator type		Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian
	1.3 Load capacity	Q (Kg)	1500	1000	1200	1000	1200
	1.4 Load center	c (mm)	600	600	600	600	600
	1.5 Wheelbase	y (mm)	1280	1197.5	1197.5	1197.5	1197.5
Weight	2.1 Service weight with battery	kg	230	500	500	500	500
	3.1 Tyre type		PU	PU	PU	PU	PU
Wheels&Tyres	3.2 Tyre size,operator side	mm	φ250×80	φ250×80	φ250×80	φ250×80	φ250×80
	3.3 Tyre size,load side	mm	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70
	3.4 Auxiliary wheel size	mm	/	φ125×50	φ125×50	φ125×50	φ125×50
	3.5 Wheels, number operator/load side(x=drive wheels)		1x/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4
	3.6 Tread,operator side	b10 (mm)	/	520	520	520	520
	3.7 Tread,load side	b11 (mm)	400	390	390	1060/1170/1370	1060/1170/1370
	4.1 Lift height	h3 (mm)	120	1500	1500	1500	1500
Dimensions	4.2 Fork height,lowered	h13 (mm)	85	85	85	50	50
	4.3 Overall length	L1 (mm)	1648	1695	1695	1619	1619
	4.4 Overall width	b1 (mm)	680	800	800	800	800
	4.5 Fork size	s/e/L (mm)	50×160×1150	60×170×1150	60×170×1150	35/100/1070	35/100/1070
	4.6 Outside fork width	b5 (mm)	560/680	560	560	210-790	210-790
	4.7 Ground clearance,center of wheelbase,min	m ² (mm)	25	35	35	35	35
	4.8 Min,right angle stacking aisle width 1000×1200 across forks	Ast (mm)	1928	2002	2002	2002	2002
	4.9 Min,right angle stacking aisle width 800×1200 across forks	Ast (mm)	1978	2052	2052	2052	2052
	4.10 Outer turning radius,min	Wa (mm)	1480	1422	1422	1422	1422
	Performance	5.1 Travel speed,laden/unladen	km/h	4.2/4.5	4.2/4.5	4.2/4.5	4.2/4.5
5.2 Lift speed,laden/unladen		mm/s	50/60	140/230	120/230	140/230	120/230
5.3 Lowering speed,laden/unladen		mm/s	40/45	180/170	180/170	180/170	180/170
5.4 Max Gradeability,laden/unladen		%	6/15	6/10	6/10	6/10	6/10
Motor&Battery	6.1 Drive motor power	KW	0.7	0.7	0.7	0.7	0.7
	6.2 Lift motor power	KW	0.8	2.2	2.2	2.2	2.2
	6.3 Battery voltage,rated capacity	V/Ah	2×12/70	2×12/70	2×12/70	2×12/70	2×12/70
7.1 Controller mode		Curtis DC	Curtis DC	Curtis DC	Curtis DC	Curtis DC	

Specifications are subject to change without notice.

1.0/1.2t Mini Range Pallet Stacker Mast Specification:

Mast Type	Max Lifting Height h3	Ground clearance,fork (h3+h13)	Lowered Height h1	Extended Height h4	Free lift	Load Capacity at 600mm	
						1.0t	1.2t
	mm	mm	mm	mm	mm	Kg	Kg
Single	1500	1585	1979	1986	1493	1000	1200
cylinder	1750	1835	2229	2236	1743	1000	1200
Single stage	2000	2085	2479	2486	1993	1000	1200

Dimensions



Basic Range

2.0t Pallet Truck



High Performance

- AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- The applied CANBUS structure to offer more reliable and faster command access.
- Regenerative brake and slope anti-slide function are offered by this truck.

Reliability

- Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability and longer working life.
- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The adopted unique floating suspension system ensures good driving wheels' grip and excellent stability.
- Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- The power plug is fixed on the truck body to avoid damage from battery installment.

Comfort

- The shock absorption design of foldable platform improves comfort greatly to the operator.
- Simple and beautiful tiller designed to operate all functions easily even by one hand.
- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Safety

- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- The emergency button on the tiller head can effectively avoid the harm to the driver.
- The standard equipped electronic lifting limitation and intellectual control limitation to offer double protection to working motor and loads from damaging.

Standard Specifications

- Horn
- Pedal (only CBD20-AEC1S)
- AC drive motor
- PU drive wheel
- Tandem load wheels
- 1150mm fork length
- CURTIS AC controller
- Hydraulic power unit
- 540mm outside fork width
- Electronic lifting limitation
- Emergency disconnect switch
- Multi-function battery indicator
- CAN-bus system multi-function tiller

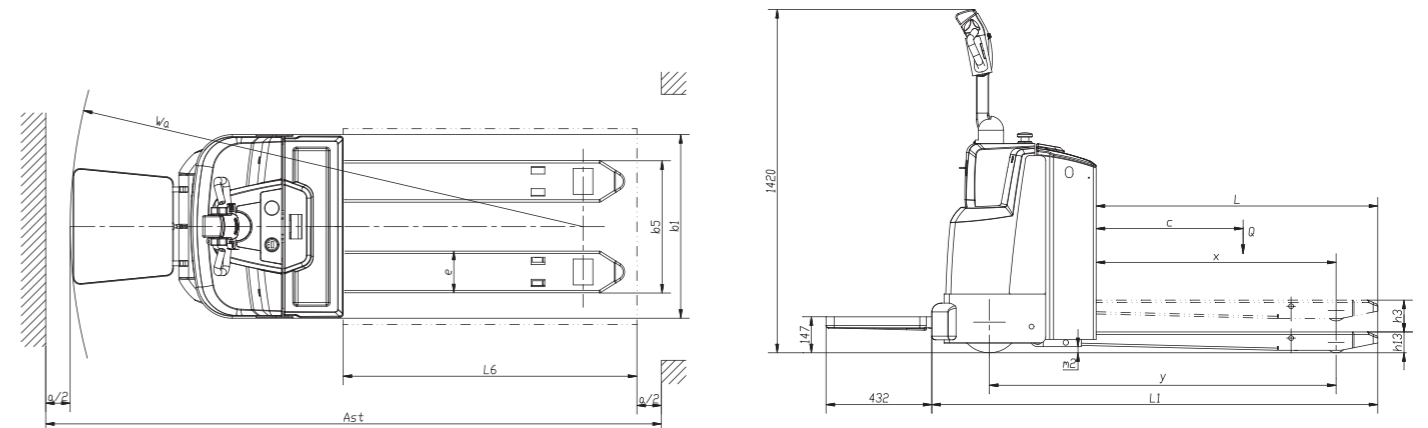
Options

- Load backrest
- Guide roller of pallet
- Handrail
- 210Ah, 240Ah battery
- Different outside fork width (560mm,600mm,650mm,680mm,700mm)
- Cold store protection (-30°C)
- Different length of forks(1220mm, 1400mm, 1600mm, 2000mm,2150mm,2400mm)

Characteristics	Manufacturer		HANGCHA GROUP CO., LTD.		
	1.1	Model		CBD20-AEC1S	CBD20-AEC1
1.2	Operator type		Stand-on	Pedestrian	
1.3	Load capacity	Q (Kg)	2000	2000	
1.4	Load center	c (mm)	600	600	
1.5	Wheelbase	y (mm)	1415	1415	
Weight	2.1	Service weight with battery	kg	540	490
Wheels & Types	3.1	Tyre type		PU	PU
	3.2	Tyre size, operator side	mm	φ250×80	φ250×80
	3.3	Tyre size, load side	mm	φ85×70	φ85×70
	3.4	Auxiliary wheel size	mm	φ100×40	φ100×40
	3.5	Wheels, number operator/load side (x=drive wheels)		1x+2/4	1x+2/4
	3.6	Tread, operator side	b10 (mm)	534	534
	3.7	Tread, load side	b11 (mm)	370	370
Dimensions	4.1	Lift height	h3 (mm)	125	125
	4.2	Fork height, lowered	h13 (mm)	85	85
	4.3	Overall length(fold the pedal)	L1 (mm)	1820	1770
	4.4	Overall length(unfold the pedal)	L1 (mm)	2252	
	4.5	Overall width	b1 (mm)	750	750
	4.6	Fork size	s/e/L (mm)	64/170/1150	64/170/1150
	4.7	Outside fork width	b5 (mm)	540/680	540/680
	4.8	Ground clearance, center of wheelbase, min	m2 (mm)	25	25
	4.9	Min. right angle stacking aisle width 1000x1200 across forks	Ast (mm)	1967	1902
	4.10	Min. right angle stacking aisle width 800x1200 along forks	Ast (mm)	2017	1952
	4.11	Outer turning radius, min	Wa (mm)	1597	1532
Performance	5.1	Travel speed, laden/unladen	km/h	5/5	5/5
	5.2	Lift speed, laden/unladen	mm/s	30/45	30/45
	5.3	Lowering speed, laden/unladen	mm/s	50/35	50/35
	5.4	Max. Gradeability, laden/unladen	%	6/15	6/15
Motor & Battery	6.1	Drive motor power	KW	1.1	1.1
	6.2	Lift motor power	KW	0.8	0.8
	6.3	Battery voltage, rated capacity	V/Ah	24/165	24/165
	6.4	Optional battery voltage, rated capacity	V/Ah	24/210~240	24/210~240
7.1	Controller mode		curtis AC	curtis AC	

Specifications are subject to change without notice.

Dimensions



Basic Range

1.2/1.4/1.6t Pallet Stacker



High Performance

- AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- The applied CANBUS structure to offer more reliable and faster command access.
- Regenerative brake and slope anti-slide function are offered by this truck.

Reliability

- Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability and longer working life.
- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The adopted unique floating suspension system ensures good driving wheels' grip and excellent stability.
- Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- H-type mast profile section to provide more stable and rigid performance.
- The power plug is fixed on the truck body to avoid damage from battery installment.

Comfort

- The shock absorption design of foldable platform improves comfort greatly to the operator.
- The new designed floating suspension system made steering operation more flexible and convenient.
- Simple and beautiful tiller designed to operate all functions easily even by one hand.
- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Safety

- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- The emergency button on the tiller head can effectively avoid the harm to the driver.
- Soft landing system applied to protect loads from damaging effectively.

Standard Specifications

- Horn
- Pedal(only for Stand-on)
- AC drive motor
- PU drive wheel
- Tandem wheels
- 2.7m duplex mast
- Soft landing system
- CURTIS AC controller
- 1150mm fork length
- Hydraulic power unit
- 570mm outside fork width
- Emergency disconnect switch
- Multi-function battery indicator
- CAN-bus system multi-function tiller
- Sensitive lowering

Options

- 240Ah battery
- Load backrest
- Side access battery
- Mast protection
- 680mm outside fork width
- Different mast lifting heights(2m-4.5m)
- Cold store protection (-30°C)
- Different length of forks (1220mm, 1400mm,1600mm)
- Handrail
- Overhead guard

Basic Range Pallet Stacker Mast Specification

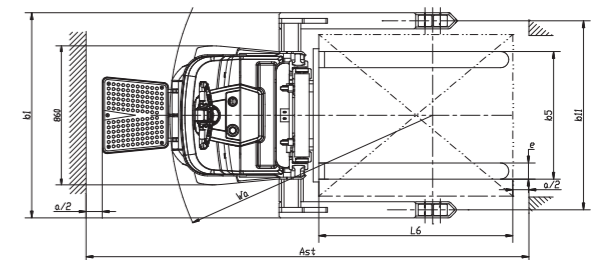
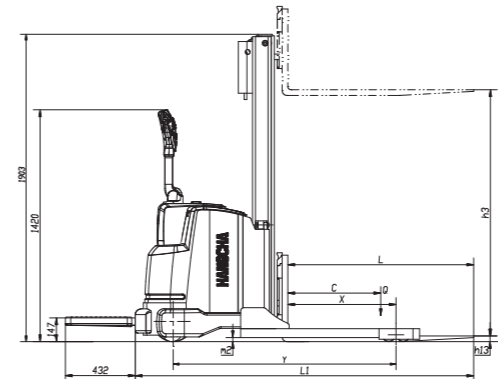
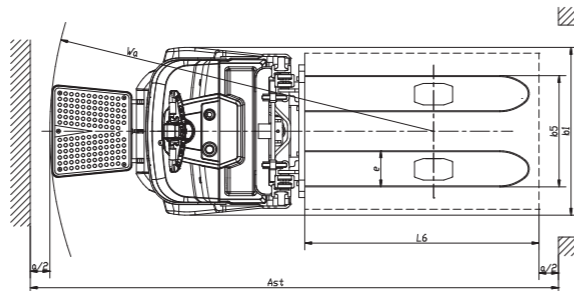
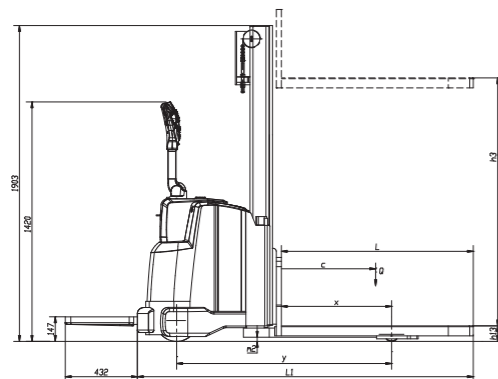
Mast type	Max Lifting Height h3	Ground clearance, fork (h3 +h13)	Lowered Height h1	Extended Height h4	Free lift	Load Capacity at 600mm		
						1. 2t	1. 4t	1. 6t
	mm	mm	mm	mm	mm	kg	kg	kg
Single cylinder duplex wide view	2000	2090	1553	2553	90	1200	1400	1600
	2500	2590	1803	3053	90	1200	1400	1600
	2700	2790	1902	3253	90	1200	1400	1450
	3000	3090	2053	3553	90	1200	1250	1300
	3300	3390	2203	3853	90	1100	1100	1150
	3500	3590	2388	4138	90	950	950	1000
Double cylinders duplex wide view	2000	2090	1542	2542	90	1200	1400	1600
	2500	2590	1792	3042	90	1200	1400	1600
	2700	2790	1892	3242	90	1200	1400	1450
	3000	3090	2042	3542	90	1200	1250	1300
	3300	3390	2192	3842	90	1100	1100	1150
	3500	3590	2292	4042	90	950	950	1000
	3600	3690	2342	4142	90	950	950	1000
	3800	3890	2442	4342	90	850	850	900
	4000	4090	2642	4642	90	750	750	800
Duplex full-free wide view	4300	4390	2792	4942	90	600	600	650
	4500	4590	2892	5142	90	500	500	550
	2000	2090	1595	2595	1090	1200	1400	1600
	2500	2590	1845	3095	1340	1200	1400	1600
	2700	2790	1945	3295	1440	1200	1400	1450
	3000	3090	2095	3595	1590	1200	1250	1300
Triplex full-free wide view	3300	3390	2245	3895	1740	1100	1100	1150
	3500	3590	2345	4095	1840	950	950	1000
	3600	3690	2395	4195	1890	950	950	1000
	3500	3590	1844	4214	1220	950	950	1000
Triplex full-free wide view	3700	3790	1909	4409	1290	850	850	900
	4000	4090	2009	4709	1390	750	750	800
	4300	4390	2109	5009	1490	600	600	650
	4500	4590	2159	5159	1590	500	500	550

Note: The mast which h3>4500mm(include 4500mm)only suitable for the pallet stacker (outside fork width b5≥680mm) .

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.												
		1.2	Manufacturer's type designation	CDD12-AEC1S	CDD12-AEC1	CDD14-AEC1S	CDD14-AEC1	CDD16-AEC1S	CDD16-AEC1	CDD12-AEC1S-B	CDD12-AEC1-B	CDD14-AEC1S-B	CDD14-AEC1-B	CDD16-AEC1S-B	CDD16-AEC1-B
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	
	1.5	Rated capacity/rated load	Q (kg)	1200	1200	1400	1400	1600	1600	1200	1200	1400	1400	1600	1600
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600	600	600	600	600	600	600
	1.9	Wheelbase	y (mm)	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾	1378 ¹⁾
Weight	2.1	Service Weight	kg	1030	990	1040	1000	1060	1020	1120	1080	1120	1080	1140	1100
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU
	3.2	Tyre size, front		Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80	Φ250×80
	3.3	Tyre size, rear		Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70	Φ85×70
	3.4	Additional wheel (dimensions)		Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50	Φ125×50
	3.5	Wheels, number front / rear (x = driven wheels)		1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4
	3.6	Tread, front	b ₁₀ (mm)	620	620	620	620	620	620	620	620	620	620	620	620
	3.7	Tread, rear	b ₁₁ (mm)	385	385	385	385	385	385	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370
Dimensions	4.4	Lift	h ₃ (mm)	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
	4.15	Fork height,lowered	h ₁₃ (mm)	90	90	90	90	90	90	50	50	50	50	50	50
	4.19	Overall length	l ₁ (mm)	2063 ²⁾ (2495 ²⁾	2013 ²⁾	2063 ²⁾ (2495 ²⁾	2013 ²⁾	2063 ²⁾ (2495 ²⁾	2013 ²⁾	2013 ²⁾ (2445 ²⁾	1963 ²⁾	2013 ²⁾ (2445 ²⁾	1963 ²⁾	2013 ²⁾ (2445 ²⁾	1963 ²⁾
	4.21	Overall width	b ₁ (mm)	860	860	860	860	860	860	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	60x185x1150	60x185x1150	60x185x1150	60x185x1150	60x185x1150	60x185x1150	35x100x1070	35x100x1070	35x100x1070	35x100x1070	35x100x1070	35x100x1070
	4.25	Distance between fork-arms	b ₅ (mm)	570/680	570/680	570/680	570/680	570/680	570/680	210-790	210-790	210-790	210-790	210-790	210-790
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30	30	30	30	30	30	40	40	40	40	40	40
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm)	2280 ²⁾	2220 ²⁾	2280 ²⁾	2220 ²⁾	2280 ²⁾	2220 ²⁾	2310 ²⁾	2250 ²⁾	2310 ²⁾	2250 ²⁾	2310 ²⁾	2250 ²⁾
	4.34.2	Aisle width for pallets 800 x 1200 crossways	A _{st} (mm)	2330 ²⁾	2270 ²⁾	2330 ²⁾	2270 ²⁾	2330 ²⁾	2270 ²⁾	2360 ²⁾	2300 ²⁾	2360 ²⁾	2300 ²⁾	2360 ²⁾	2300 ²⁾
4.35	Turning radius	W _a (mm)	1630 ¹⁾	1570 ¹⁾	1630 ¹⁾	1570 ¹⁾	1630 ¹⁾	1570 ¹⁾	1630 ¹⁾	1570 ¹⁾	1630 ¹⁾	1570 ¹⁾	1630 ¹⁾	1570 ¹⁾	
Performance data	5.1	Travel speed,laden/unladen	km/h	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
	5.2	Lift speed,laden/unladen	m/s	0.100/0.160	0.100/0.160	0.100/0.160	0.100/0.160	0.120/0.180	0.120/0.180	0.100/0.160	0.100/0.160	0.100/0.160	0.100/0.160	0.120/0.180	0.120/0.180
	5.3	Lowering speed,laden/unladen	m/s	0.130/0.140	0.130/0.140	0.130/0.140	0.130/0.140	0.140/0.150	0.140/0.150	0.130/0.140	0.130/0.140	0.130/0.140	0.130/0.140	0.140/0.150	0.140/0.150
	5.8	Max Gradeability,laden/unladen	%	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
	5.10	Service brake		Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic
Electric Engine	6.1	Drive motor rating S2 60 min	kW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	6.2	Lift motor rating at S3 15%	kW	2.2	2.2	2.2/3 ¹⁾	2.2/3 ¹⁾	3	3	2.2	2.2	2.2/3 ¹⁾	2.2/3 ¹⁾	3	3
	6.4	Battery voltage,rated capacity	V/Ah	24/210	24/210	24/210	24/210	24/240	24/240	24/210	24/210	24/210	24/210	24/240	24/240
8.1	Type of drive control		AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	
9.1	Manufacturer		CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	

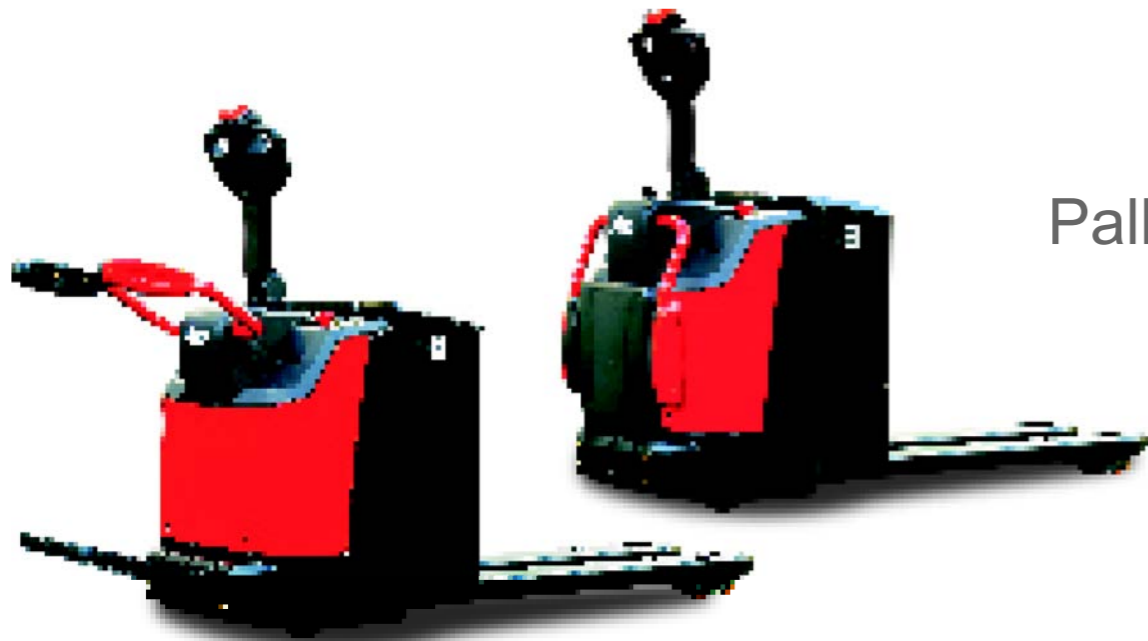
Note: 1)Mast with double lifting cylinders(including triplex mast)+47mm
2)Duplex mast with double lifting cylinders+47mm and triplex mast+68mm
3)Mast with double lifting cylinders(including triplex mast)

Dimensions



Hi Range

2.0/3.0t Pallet Truck



High Performance

- AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- The applied CAN-BUS structure to offer more reliable and faster command access.
- Regenerative brake and slope anti-slide function are offered by this truck.
- Stand-on type with high power drive motor, provides fast travel speed and good gradeability.

Reliability

- Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capacity and longer working life.
- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The adopted unique floating suspension system ensures good driving wheels grip and excellent.
- Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- H-type mast profile section to provide more stable and rigid performance.
- The power plug is fixed on the truck body to avoid damage from battery installment.
- Pedestrian type use the new design drive system, the drive motor will not accompany the tiller rotation, it can keep all the cable connect to the drive motor avoid being bent.

- Using non-contact proximity switch, it can provides long life and reliable operation.

Comfort

- The shock absorption design of foldable platform improves comfort greatly to the operator.
- The new designed floating suspension driving system, adjustable automatically with loads, offers the driving wheels sufficient power.
- Simple and beautiful tiller designed to operate all functions easily even by one hand.
- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- Customer can choose different width of outside fork and length of forks to fit variable pallet.

Safety

- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- The emergency button on the tiller head can effectively avoid the harm to the driver.
- Lifting limitation switch to offer protection to the loads from damaging.
- Turning speed is automatically reduced when steering only for stand-on.

Maintenance

- AC motor with no cabin brush, don't need maintenance, lower cost.
- Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Standard Specifications

- Horn
- AC drive motor
- PU drive wheel
- Pedal and handrail
- Tandem load wheels
- 1150mm fork length
- CURTIS AC controller
- Hydraulic power unit
- 540mm outside fork width
- Electronic lifting limitation
- Emergency disconnect switch
- Multi-function battery indicator
- CAN-bus system multi-function tiller
- Electric steering (stand on pallet)

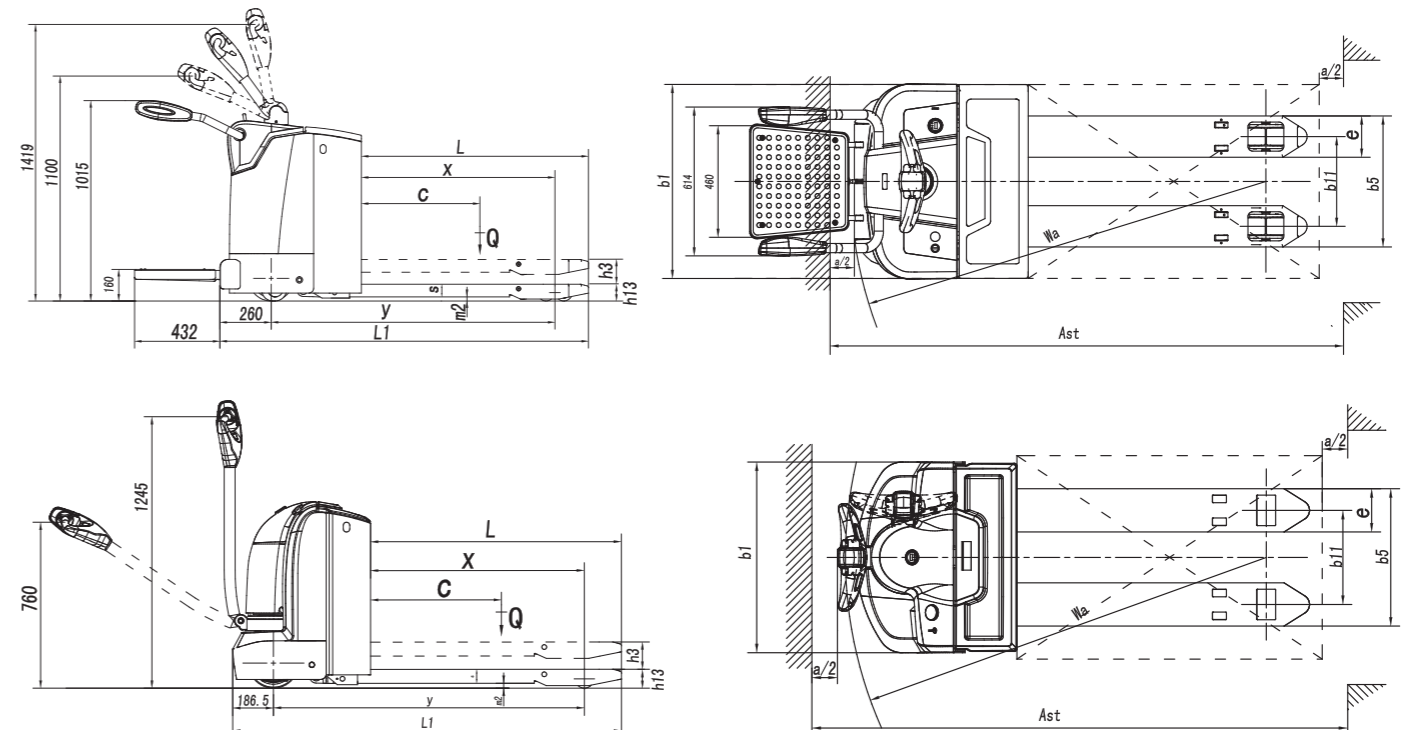
Options

- Load backrest
- Different width of outside fork
- Cold store protection (-30°C)
- Pedestrian:210Ah~240Ah,
- Stand-on:240Ah~340Ah
- Guide roller of pallet
- Different length of forks
- Automatic charger

		HANGCHA GROUP CO.,LTD.				
Characteristics	1.1 Model		CBD20-AC1S	CBD20-AC1	CBD30-AC1S	CBD30-AC1
	1.2 Operator type		Stand-on	Pedestrian	Stand-on	Pedestrian
	1.3 Load capacity	Q (kg)	2000	2000	3000	3000
	1.4 Load center	c (mm)	600	600	600	600
	1.5 Wheelbase	y (mm)	1369 ⁽¹⁾	1357 ⁽¹⁾	1369 ⁽¹⁾	1357 ⁽¹⁾
Weight	2.1 Service weight with battery	kg	726	544	750	564
	3.1 Tyre type		PU	PU	PU	PU
Wheels&Tyres	3.2 Tyre size,operator side	mm	φ230×75	φ230×75	φ230×75	φ230×75
	3.3 Tyre size,load side	mm	φ85×70	φ85×70	φ85×70	φ85×70
	3.4 Auxiliary wheel size	mm	φ125×50	φ100×40	φ125×50	φ100×40
	3.5 Wheels, number operator/load side(x=drive wheels)		1x+2/4	1x+2/4	1x+2/4	1x+2/4
	3.6 Tread,operator side	b10 (mm)	575	480	575	480
	3.7 Tread,load side	b11 (mm)	370	370	370	370
	Dimensions	4.1 Lift height	h3 (mm)	125	125	125
4.2 Fork height,lowered		h13 (mm)	85	85	85	85
4.3 Overall length(fold the pedal)		L1 (mm)	1867	1781	1867	1781
4.4 Overall length(unfold the pedal)		L1 (mm)	2299		2299	
4.5 Overall width		b1 (mm)	800	750	800	750
4.6 Fork size		s/e/L (mm)	64/170/1150	64/170/1150	64/170/1150	64/170/1150
4.7 Outside fork width		b5 (mm)	540/680	540/680	540/680	540/680
4.8 Ground clearance,center of wheelbase,min		m ² (mm)	25	25	25	25
4.9 Min,right angle stacking aisle width 1000×1200 across forks		Ast (mm)	1997 ⁽²⁾	1955 ⁽²⁾	1997 ⁽²⁾	1955 ⁽²⁾
4.10 Min,right angle stacking aisle width 800×1200 across forks		Ast (mm)	2047 ⁽²⁾	2005 ⁽²⁾	2047 ⁽²⁾	2005 ⁽²⁾
4.11 Outer turning radius,min		Wa (mm)	1627/2040 ⁽¹⁾	1585 ⁽¹⁾	1627/2040 ⁽¹⁾	1585 ⁽¹⁾
Performance	5.1 Travel speed,laden/unladen	km/h	9.0/9.5	6.0/6.0	7.5/9.5	5.0/6.0
	5.2 Lift speed,laden/unladen	mm/s	47/65	47/65	36/51	36/51
	5.3 Lowering speed,laden/unladen	mm/s	75/70	73/70	60/55	60/55
	5.4 Max Gradeability,laden/unladen	%	10/16	8/20	8/16	6/20
Motor&Battery	6.1 Drive motor power	kW	2.2	1.5	2.2	1.5
	6.2 Lift motor power	kW	2.2	2.2	2.2	2.2
	6.3 Battery voltage,rated capacity	V/Ah	24/240	24/210	24/280	24/240
	6.4 Optional battery voltage,rated capacity	V/Ah	~24/340	~24/240	~24/340	~24/240
7.1 Controller mode		curtis AC	curtis AC	curtis AC	curtis AC	

Note: 1). When fork lowered,+68mm 2). When fork lowered,+40mm

Dimensions





Hi Range

1.2/1.4/1.6/2.0t Pallet Stacker

High Performance

- AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- The applied CAN-BUS structure to offer more reliable and faster command access.
- Regenerative brake and slope anti-slide function are offered by this truck.
- Stand-on type with high power drive motor, provides fast travel speed and good gradeability.

Reliability

- Four-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capacity and longer working life.
- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The adopted unique floating suspension system ensures good driving wheels grip and excellent.
- Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.
- H-type mast profile section to provide more stable and rigid performance.
- The power plug is fixed on the truck body to avoid damage from battery installment.
- Pedestrian type use the new design drive system, the drive motor will not accompany the tiller rotation, it can keep all the cable connect to the drive motor avoid being bent.
- Using non-contact proximity switch, it can provides long life and reliable operation.

Comfort

- The shock absorption design of foldable platform improves comfort greatly to the operator.
- The new designed floating suspension driving system, adjustable automatically with loads, offers the driving wheels sufficient power.
- Simple and beautiful tiller designed to operate all functions easily even by one hand.
- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- Customer can choose different width of outside fork and length of forks to fit variable pallet.

Safety

- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- The emergency button on the tiller head can effectively avoid the harm to the driver.
- Soft landing system applied to offer protection to the loads from damaging.
- Turning speed is automatically reduced when steering only for stand-on.
- Turtle speed function can keep the slow move when the tiller is vertical direction, the truck can stack goods even in narrow space.
- Travel speed will be automatically reduced after fork lifting 500mm.

Maintenance

- AC motor with no cabin brush, don't need maintenance, lower cost.
- Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Standard Specifications

- Horn
- AC drive motor
- Battery
- PU drive wheel
- Tandem wheels
- Fork lift & lower adopts stepless speed regulating
- Pedal and handrail
- Soft landing system
- 1150mm fork length
- CURTIS AC controller
- Hydraulic power unit
- 570mm outside fork width
- Emergency disconnect switch
- Multi-function battery indicator
- CAN-bus system multi-function tiller
- Electric steering (stand on pallet stacker)

Options

- Load backrest
- Mast protection
- 240Ah, 340Ah battery
- Different width of outside fork
- Different mast lifting heights
- Cold store protection (-30°C)
- Side way battery change
- Different length of forks
- Overhead guard

High Range Pallet Stacker Mast Specification

1.2t/1.4t/1.6t

Mast type	Max. lifting height h3	Ground clearance, fork (h3+h13)	Lowered height h1	Extended height h4	Free lift	Load capacity at 600mm			
						1.2t	1.4t	1.6t	2.0t
	mm	mm	mm	mm	mm	kg	kg	kg	kg
Double cylinder duplex wide view	2000	2090	1542	2542	90	1200	1400	1600	-
	2500	2590	1792	3042	90	1200	1400	1600	-
	2700	2790	1892	3242	90	1200	1400	1600	-
	3000	3090	2042	3542	90	1200	1400	1600	-
	3300	3390	2192	3842	90	1200	1200	1300	-
	3500	3590	2292	4042	90	1070	1070	1130	-
	3600	3690	2342	4142	90	1000	1000	1050	-
	3800	3890	2442	4342	90	920	920	970	-
	4000	4090	2642	4642	90	850	850	900	-
	4300	4390	2792	4942	90	770	770	810	-
Duplex full-free wide view	2000	2090	1595	2595	1090	1200	1400	1600	-
	2500	2590	1845	3095	1340	1200	1400	1600	-
	2700	2790	1945	3295	1400	1200	1400	1600	-
	3000	3090	2095	3595	1590	1200	1400	1600	-
	3300	3390	2245	3895	1740	1200	1200	1300	-
	3500	3590	2345	4095	1840	1070	1070	1130	-
	3600	3690	2395	4195	1890	1000	1000	1050	-
Triplex full-free wide view	3500	3590	1844	4214	1220	1070	1070	1130	-
	3700	3790	1909	4409	1290	960	960	1010	-
	4000	4090	2009	4709	1390	850	850	900	-
	4300	4390	2109	5009	1490	770	770	810	-
	4500	4590	2159	5159	1590	680	680	710	-
	4700	4790	2259	5459	1590	600	600	630	-
	5000	5090	2354	5744	1700	500	500	530	-
	5200	5290	2409	5909	1790	440	440	470	-

2.0t

Mast type	Max. lifting height h3	Ground clearance, fork (h3+h13)	Lowered height h1	Extended height h4	Free lift	Load capacity at 600mm			
						1.2t	1.4t	1.6t	2.0t
	mm	mm	mm	mm	mm	kg	kg	kg	kg
Double cylinder duplex wide view	2000	2090	1647	3647	90	-	-	-	2000
	2500	2590	1897	3147	90	-	-	-	2000
	2700	2790	1997	3347	90	-	-	-	1800
	3000	3090	2147	3647	90	-	-	-	1600
	3300	3390	2297	3947	90	-	-	-	1350
	3500	3590	2397	4147	90	-	-	-	1180
	3600	3690	2447	4247	90	-	-	-	1100
	3800	3890	2547	4447	90	-	-	-	980
	4000	4090	2747	4747	90	-	-	-	950
	4300	4390	2897	5047	90	-	-	-	860
Duplex full-free wide view	2000	2090	1700	2700	1090	-	-	-	2000
	2500	2590	1950	3200	1340	-	-	-	2000
	2700	2790	2050	3400	1440	-	-	-	1800
	3000	3090	2200	3700	1590	-	-	-	1600
	3300	3390	2350	4000	1740	-	-	-	1350
	3500	3590	2450	4200	1840	-	-	-	1180
	3600	3690	2500	4300	1890	-	-	-	1100
Triplex full-free wide view	3500	3590	1944	4314	1130	-	-	-	1180
	3700	3790	2009	4509	1200	-	-	-	1020
	4000	4090	2109	4809	1300	-	-	-	950
	4300	4390	2209	5109	1400	-	-	-	860
	4500	4590	2259	5259	1500	-	-	-	760
	4700	4790	2359	5559	1500	-	-	-	680
	5000	5090	2454	5844	1610	-	-	-	570
	5200	5290	2509	6009	1700	-	-	-	510

		HANGCHA GROUP CO.,LTD.																
Manufacturer																		
Characteristics	1.1 Model	CDD12-AC1S	CDD12-AC1	CDD14-AC1S	CDD14-AC1	CDD16-AC1S	CDD16-AC1	CDD20-AC1S	CDD20-AC1	CDD12-AC1S-B	CDD12-AC1-B	CDD14-AC1S-B	CDD14-AC1-B	CDD16-AC1S-B	CDD16-AC1-B	CDD20-AC1S-B	CDD20-AC1-B	
	1.2 Operator type	Stand-on	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	
	1.3 Load capacity	Q (Kg)	1200	1200	1400	1400	1600	1600	2000	2000	1200	1200	1400	1400	1600	1600	2000	
	1.4 Load center	c (mm)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	
	1.5 Wheelbase	y (mm)	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	
Weight	2.1 Service weight with battery	kg	1310	1177	1315	1182	1362	1215	1405	1258	1380	1247	1385	1252	1432	1285	1475	1328
	Wheels&Tyres	3.1 Tyre type		PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU
		3.2 Tyre size,operator side	mm	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75	φ230×75
		3.3 Tyre size,load side	mm	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70	φ85×70
		3.4 Auxiliary wheel size	mm	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55	140×55
		3.5 Wheels, number operator/load side(x=drive wheels)		1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4
		3.6 Tread,operator side	b10 (mm)	525	525	525	525	525	525	525	525	525	525	525	525	525	525	525
		3.7 Tread,load side	b11 (mm)	385	385	385	385	385	385	385	385	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370	1000/1170/1370
4.1 Lift height		h3 (mm)	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	
Dimensions	4.2 Fork height,lowered	h13 (mm)	90	90	90	90	90	90	90	90	50	50	50	50	50	50	50	
	4.3 Overall length(fold the pedal)	L1 (mm)	2095 ¹⁾	2050 ¹⁾	2095 ¹⁾	2050 ¹⁾	2095 ¹⁾	2050 ¹⁾	2095 ¹⁾	2050 ¹⁾	2050 ¹⁾	2005 ¹⁾	2050 ¹⁾	2005 ¹⁾	2050 ¹⁾	2005 ¹⁾	2050 ¹⁾	2005 ¹⁾
	4.4 Overall length(unfold the pedal)	L1 (mm)	2527 ¹⁾		2527 ¹⁾		2527 ¹⁾		2527 ¹⁾		2482 ¹⁾		2482 ¹⁾		2482 ¹⁾		2482 ¹⁾	
	4.5 Overall width	b1 (mm)	800	800	800	800	800	800	800	800	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	
	4.6 Fork size	s/e/L (mm)	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	35/100/1070	35/100/1070	35/100/1070	35/100/1070	35/100/1070	35/100/1070	40/122/1070	40/122/1070
	4.7 Outside fork width	b5 (mm)	570/680	570/680	570/680	570/680	570/680	570/680	570/680	570/680	210-790	210-790	210-790	210-790	210-790	210-790	210-790	210-790
	4.8 Ground clearance,center of wheelbase,min	m ² (mm)	30	30	30	30	30	30	25	25	40	40	40	40	40	40	40	40
	4.9 Min,right angle stacking aisle width 1000×1200 across forks	Ast (mm)	2312 ¹⁾	2318 ¹⁾	2312 ¹⁾	2318 ¹⁾	2312 ¹⁾	2318 ¹⁾	2312 ¹⁾	2318 ¹⁾	2342 ¹⁾	2348 ¹⁾	2342 ¹⁾	2348 ¹⁾	2342 ¹⁾	2348 ¹⁾	2342 ¹⁾	2348 ¹⁾
	4.10 Min,right angle stacking aisle width 800×1200 across forks	Ast (mm)	2362 ¹⁾	2368 ¹⁾	2362 ¹⁾	2368 ¹⁾	2362 ¹⁾	2368 ¹⁾	2362 ¹⁾	2368 ¹⁾	2392 ¹⁾	2398 ¹⁾	2392 ¹⁾	2398 ¹⁾	2392 ¹⁾	2398 ¹⁾	2392 ¹⁾	2398 ¹⁾
	4.11 Outer turning radius,min	Wa (mm)	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668
	Performance	5.1 Travel speed,laden/unladen	km/h	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0
5.2 Lift speed,laden/unladen		mm/s	87/133	87/133	129/198	129/198	108/160	108/160	98/160	98/160	87/133	87/133	129/198	129/198	108/160	108/160	98/160	98/160
5.3 Lowering speed,laden/unladen		mm/s	155/158	155/158	213/200	213/200	185/155	185/155	195/155	195/155	155/158	155/158	213/200	213/200	185/155	185/155	195/155	195/155
5.4 Max Gradeability,laden/unladen		%	10/16	8/16	10/16	8/16	8/16	5/16	8/16	5/16	10/16	8/16	10/16	8/16	8/16	5/16	8/16	5/16
Motor&Battery	6.1 Drive motor power	kW	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5
	6.2 Lift motor power	kW	2.2	2.2	3	3	3	3	3	3	2.2	2.2	3	3	3	3	3	3
	6.3 Steering motor power	kW	0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2	
	6.4 Battery voltage,rated capacity	V/Ah	24/280	24/240	24/280	24/240	24/340	24/280	24/340	24/280	24/280	24/240	24/280	24/240	24/340	24/280	24/340	24/280
	Optional battery voltage,rated capacity	V/Ah	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340	~24/340
7.1 Controller mode		curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	curtis AC	

Note: 1)Triplex Mast+21mm

Dimensions

